Trade and Industrial Education
Course: Computer Architecture
Course Code # 5756
1 Credit

School Year_____

Term:____Fall____Spring

Student:	Grade:
Teacher:	School:
Number of Competencies in Course:	**22**
Number of Competencies Mastered:	
Percent of Competencies Mastered:	

STANDARD 1.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Exhibit positive leadership skills.		
1.2	Participate in SkillsUSA-VICA as an integral part of classroom instruction.		
1.3	Assess situations and apply problem-solving and decision-making skills to particular client relations in the community and workplace.		
1.4	Demonstrate the ability to work cooperatively with others in a professional setting.		

Standard 2.0: Students will detect system problems through observation of system actions, report of error messages, and/or client requests.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1	Create a table that relates observable symptoms to particular portions of the system.		
2.2	Observe how faults in the system manifest themselves.		
2.3	Evaluate a normal bootup sequence.		
2.4	Perform customer service and administrative functions.		

STANDARD 3.0: Students will perform diagnostic operations or troubleshooting on software.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Explore and implement the use of diagnostic programs such as CheckIt Sysinfo and Microsoft Diagnostics (MSD).		
3.2	Execute diagnostic procedures for using software for hardware testing.		
3.3	Analyze situations where diagnostic programs would be useful to a field technician.		

STANDARD 4.0: Students will perform diagnostic operations or troubleshooting on hardware.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1	Explore and implement the use of diagnostic programs such as PC-Check.		
4.2	Execute diagnostic procedures on hardware.		
4.3	Explore and implement diagnostic modules using power-on shelf test (POST) cards.		
4.4	Troubleshoot the system's operations.		
4.5	Analyze problems that do not present apparent symptoms.		

STANDARD 5.0: Students will optimize memory in a computer.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Evaluate available RAM memory and make a decision as to installing additional RAM in an advanced architecture system.		
5.2	Configure hardware, CMOS, and software to use additional memory.		
5.3	Evaluate a system's performance.		

Students will perform safety examinations and maintain safety records.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
Safety1	Pass with 100 % accuracy a written examination relating to safety issues.		
Safety2	Pass with 100% accuracy a performance examination relating to safety.		

Safety3	Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.		

Additional Comments _____